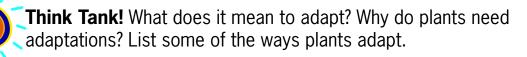


The Plant Family Tree is a project of the U.S. Botanic Garden (usbg.gov) and the National Museum of Natural History, Department of Botany, Smithsonian Institution (botany.si.edu/).

# **Surviving Against the Odds**

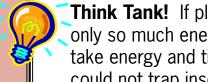
How do plants adapt and survive?

## **Exploring the Conservatory ...**



Which adaptation interests you most? Why?

# **Become a Savvy Plant Sleuth!**



Think Tank! If plants did not adapt, they would not survive. Plants have only so much energy, so they need to make good use of it. Adaptations take energy and time to evolve. What would happen if the Venus Flytrap could not trap insects?

adaptations a plant may want to have its energy to have the adaptation(s)  1.  2.	with your group to brainstorm one or two ye in the jungle. Why would the plants want to use you choose? List your reasons below.
	your help in charting different plant adaptations cher or chaperone on a Scavenger Hunt and fill in
Adaptive Traits:  1. Leaves that appear to be already Plant: Why You Chose It:	chewed Country of Origin:
2. Aerial roots Plant: Why You Chose It:	Country of Origin:
<b>3.</b> Two different plants that thrive in Plant: Why You Chose It:	Country of Origin:
<b>4.</b> A plant that appears to depend o Plant: Why You Chose It:	n another plant for survival Country of Origin:
<b>5.</b> Looks like it could stop herbivore Plant: Why You Chose It:	Country of Origin:
<b>6.</b> A plant that has characteristics to Plant: Why You Chose It:	c help protect it from the hot sun Country of Origin:

If you are not already there, please follow your teacher or chaperone through World Deserts. As you are walking, look at the plants you pass. Consider how each plant is specially suited for its environment.



**Think Tank!** List several adjectives to describe the plants you see growing in World Desert.

Why might a plant growing in the Desert need these adaptations?

#### Dig Deeper...

Think about your own experiences adapting to your environment. Talk with your group and come up with different ways you adapt to various weather conditions. Find a partner and share your ideas.

## What do YOU do if it is... wet, windy, hot or dry?

Now consider what a plant would do in the same conditions. List your answers below. What does A PLANT do if it is...

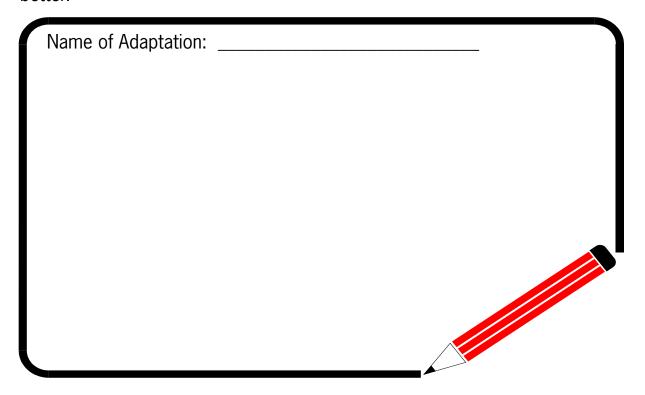
Wet?	
Windy?	
Windy? Hot?	
Dry?	



**Think Tank!** Think about yourself, where you live, and someone who is a friend. If you could create any adaptation for yourself or your friend, what would it be?



Choose your favorite of the adaptations you just created. In the space below, draw your choice. Be prepared to explain why it is important and how it works to make life better.



## What Did You Learn?

**Think Tank!** Why do plants need adaptations? Could plants survive without certain adaptations? Why or why not?